INTERNATIONAL SEARCH REPORT

International application No.
PCI 03/10613

A. CLASSIFICATION OF SUBJECT MATTER Int.Cl ⁷ G11B7/005, G11B7/135, G11B7/24					
According to International Patent Classification (IPC) or to both national classification and IPC					
B. FIELDS SEARCHED					
	locumentation searched (classification system followed b	by classification symbols)			
	Cl ⁷ G11B7/005, G11B7/135, G11B				
Jits Koka	tion searched other than minimum documentation to the uyo Shinan Koho 1926–1996 i Jitsuyo Shinan Koho 1971–2003	Jitsuyo Shinan Toroku Koho Toroku Jitsuyo Shinan Koho	1996-2003 1994-2003		
Electronic o	ata base consulted during the international search (name	of data base and, where practicable, sear	rch terms used)		
		•			
C. DOCUMENTS CONSIDERED TO BE RELEVANT					
Category*	Citation of document, with indication, where app	propriate, of the relevant passages	Relevant to claim No.		
X	JP 5-101398 A (Hitachi, Ltd.)),	1-2,7-8,10		
Y · A	23 April, 1993 (23.04.93), Par. Nos. [0154], [0189] to [01921;	6 3-5,9,11-15		
	Figs. 1, 5, 13, 14, 17	İ	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
	& US 5414451 A & US	5614938 A			
Y	JP 9-44895 A (Victor Company 14 February, 1997 (14.02.97),	Of Japan, Ltd.),	6		
	Par. No. [0017]; Fig. 5 (Family: none)				
A	JP 2001-273640 A (Hitachi, L 05 October, 2001 (05.10.01),	td.),	1-10		
	<pre>Full text; all drawings (Family: none)</pre>	· · ·			
	(ramily: none)	·			
		-			
× Furth	er documents are listed in the continuation of Box C.	See patent family annex.			
* Special categories of cited documents: "T" later document published after the international filing date or					
"A" document defining the general state of the art which is not considered to be of particular relevance understand the principle or theory underlying the invention					
"E" earlier document but published on or after the international filing "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive					
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) step when the document is taken alone document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is					
"O" document referring to an oral disclosure, use, exhibition or other means combined with one or more other such documents, such combination being obvious to a person skilled in the art					
"P" document published prior to the international filing date but later "&" document member of the same patent family than the priority date claimed					
Date of the actual completion of the international search 21 November, 2003 (21.11.03) Date of mailing of the international search report 09 December, 2003 (09.12.03)					
	nailing address of the ISA/ nnese Patent Office	Authorized officer			
Facsimile N	lo.	Telephone No.			

Form PCT/ISA/210 (continuation of second sheet) (July 1998)

	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
A	JP 7-78353 A (Matsushita Electric Industrial	1-15
	Co., Ltd.), 20 March, 1995 (20.03.95),	
	Full text; all drawings	
	& US 5563873 A & US 5627816 A & US 5768251 A	
A	JP 3-157816 A (Matsushita Electric Industrial	. 11 16
. **	Co., Ltd.),	11-15
	05 July, 1991 (05.07.91), Full text; all drawings	
	(Family: none)	
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